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AFCL 1-R-468

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MARINS. [1962] 5p. 7 refs.
Order from SIA \$4.10

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v. 35 [no. 1] p. 13-15.

DESCRIPTORS: Drugs, *Photosensitivity, *Skin,
Pigments, Plants, Inflammation, *Coumarin deriva-
tives, Sunburn, *Ultraviolet radiation.

Natural coumarins possess photodynamic properties
with certain concomitant pathologic aspects. Experi-
menting with a series of natural coumarins, the
Authors succeeded in establishing that these proper-
ties are primarily due to three furocoumarins: psor-
alene, xanthoxan and bergapten. Among these
substances, psoralene is the most active one. (Author)
(Biological Sciences--Pharmacology, TT, v. 8, no. 11)

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1964, pp 11-14.
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Order from OTS, SLA, or ETC \$1.10 TT-62-14103

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no. 7/8, p. 40-42.
Abstract trans. is available from OTS or SLA \$1.60
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DESCRIPTORS: *Petroleum, Oils, Distillation,
*Desulfurization, *Zinc compounds, Hydroxides.

I. Musatov, K. A.
II. Krymova, L. G.

Office of Technical Services

(Engineering--Chemical, TT, v. 11, no. 2)

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RUSSIAN, per, Neft Khoz, Vol XXI, No 3, 1940,
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OTS 61-16869

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MECHANISM OF DESULFURIZATION OF OIL DIS-
TILLATES WITH ZINC CHLORIDE. [1961] 9p. 12 refs.
Order from OTS or SLA \$1.10 61-16866

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1940,
v. 13, no. 2, p. 227-234.

DESCRIPTORS: Hydrocarbons, *Kerosene, Benzine,
*Sulfur compounds, Oils, *Desulfurization, Zinc
compounds, Chlorides.

When zinc chloride is deposited from its aqueous solu-
tions on a porous carrier, zinc oxide and zinc hydroxide
are formed by hydrolysis and deposited together with
the zinc chloride. In desulfurization with solid zinc
chloride, its oxygen compounds have a decisive effect
on the extent of desulfurization of the distillate and on
the combination of hydrogen sulfide. Taking this into
(Chemistry--Physical, TT, v. 6, no. 9) (over)

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AROMATIC DISTILLATES WITH SULFURIC ACID.
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Order from OTS or SLA \$1.10

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Trans. of Zhurnal Prikladnoi Khimii (USSR) 1940,
v. 13, no. 2, p. 235-243.

DESCRIPTORS: Benzine, Hydrocarbons, *Sulfur com-
pounds, Oxidation, Sulfuric acid.

In oxidation of oil distillates with sulfuric acid, carbon
and coke catalytically decompose the non-volatile ox-
idation products, liberating hydrogen sulfide. Olefins
and sulfur compounds are oxidized in the vapor phase
much more rapidly than the paraffins and aromatics of
similar boiling range. In the presence of olefins of
sulfur compounds in amounts of 5-10% and higher con-
(Chemistry--Organic, TT, v. 6, no. 9) (over)

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Scientific - Fuels
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REFINING OF PETROLEUM GASES IN CONJUNCTION
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Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya. 1942, no. 5/6, p. 29-34.

DESCRIPTORS: *Petroleum, Processing. *Sulfuric acid, Decomposition. *Charcoal, Chemical reactions. *Acids, Hydrocarbons, Gases.

An investigation is reported showing that charcoal can be used for decomposition of sulfuric acid, yielding a dilute acid suitable for various industrial uses. This process can be employed for reclaiming acid from acid sludge obtained as a by-product of refining petroleum products. (Author)

(Engineering--Chemical, TT, v. 6, no. 7)

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REAKTORBETRIEB (Construction of Compensators
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